Name: ..... Class: .....

Inequalities with division

Complete the expressions below with **<**, **>** or **=** sign.

a. (100÷2) ÷ 25 _____ 80 ÷ 40.

b. 80 ÷ 4 _____ 100 ÷ 25.

c. 30 ÷ (15 ÷ 3) _____ 56 ÷ (72 ÷ 9).

Solution

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Inequalities with division

Complete the expressions below with **<, >** or **=** sign.

a. (100÷2) ÷ 25 _____ 80 ÷ 40.

Let's first of all start by solving the left hand side of the expression

(100÷2) ÷ 25 = 50 ÷ 25 = 2

Now let's solve the right hand side of the expression.

$\frac{80}{40}$ = 2

Finally let's compare.

Since 2 = 2, it implies that (100÷2) ÷ 25 **=** 80 ÷ 40.

b. 80 ÷ 4 _____ 100 ÷ 25.

Let's first of all start by solving the left hand side of the expression.

$\frac{80}{4} = \frac{20x4}{1x4}$ = 20

Secondly let's solve the right hand side of the expression.

$\frac{100}{25} = \frac{4x25}{1x25}$ = 4

Finally, let's compare.

Since 20 is greater than 4, it implies that 80 ÷ 4 **>** 100 ÷ 25.

c. 30 ÷ (15 ÷ 3) _____ 56 ÷ (72 ÷ 9).

Let's first of all start by solving the left hand side of the expression.

30 ÷ (15 ÷ 3) = 30 ÷ 5 = 6

Now let's solve the right hand side of the expression.

56 ÷ (72 ÷ 9) = 56 ÷ 8 = 7

Finally, let's compare.

Since 6 is less than 7, it implies that 30 ÷ (15 ÷ 3) **<** 56 ÷ (72 ÷ 9).